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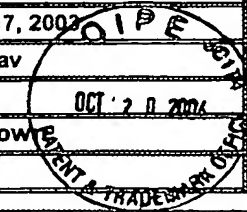
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PTO/SB/08A (10-96)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/736,741
		Filing Date	December 17, 2003
		First Named Inventor	ZIPPER, Eliav
		Group Art Unit	2681
		Examiner Name	Not yet known
Sheet 1 of 4	Attorney Docket Number	P-6114-US	



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
PZ	A	5,012,200		Meinzer	04-30-1991	
	B	5,882,480		Rich	01-19-1999	
	C	5,803,854		Abe et al.	05-11-1999	
	D	6,330,465		Ichihara	12-11-2001	
	E	5,302,914		Arntz et al.	04-12-1994	
	F	6,285,251		Dent et al.	09-04-2001	
	G	5,894,093		DaSilva et al.	12-02-1997	
	H	5,854,571		Pinckley et al.	12-29-1998	
	I	5,872,481		Sevic et al.	02-16-1999	
	J	6,133,788		Dent	10-17-2000	
	K	6,201,452		Dent et al.	03-13-2001	
	L	5,345,189		Homak et al.	09-06-1994	
	M	5,264,807		Okubo et al.	11-23-1993	
	N	5,809,843		Alhara	08-01-1999	
	O	5,928,702		Myers et al.	09-27-1999	
	P	5,758,269		Wu	05-26-1998	
	Q	5,788,727		Sigmon	07-28-1998	
	R	5,888,575		Long	03-23-1999	
	S	5,880,833		Leizerovich et al.	03-09-1999	
	T	5,739,723		Sigmon et al.	04-14-1998	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
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Examiner Signature		Date Considered	07/18/06
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Application Number		10/736,741			
Filing Date		December 17, 2003			
First Named Inventor		ZIPPER, Eliav			
Group Art Unit		2681			
Examiner Name		Not yet known			
Sheet	2	of	4	Attorney Docket Number	P-6114-US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
B2	V	5,872,481		Sevic et al.	02-18-1999	
	W	5,681,434		Brozovich et al.	08-28-1997	
	X	5,420,541		Upton et al.	05-30-1995	
	Y	5,568,094		Bowen et al.	10-22-1998	
	Z	5,548,248		Tamamoto et al.	08-20-1998	
	AA	5,541,554		Stengel et al.	07-30-1998	
	AB	5,724,005		Chen et al.	03-03-1998	
	AC	4,439,744		Kumar et al.	03-27-1984	
	AD	5,621,351		Puri et al.	04-15-1997	
	AE	4,433,312		Kahn	02-21-1984	
	AF	5,974,041		Kornfeld et al.	10-28-1999	
	AG	3,777,275		Cox	12-04-1973	
	AH	6,587,511		Barak et al.	07-01-2003	
	AI	5,901,346		Stengel et al.	05-04-1999	
	AJ	2003/0125065		Hasson et al.	07-03-2003	
	AK	09/579,528		Hasson, Jaime et al.	05-26-2000 (filing date)	
B3	AL	10/131,750		Barak et al.	04-24-2002 (filing date)	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
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Examiner Signature		Date Considered	07/18/06
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/736,741
				Filing Date	December 17, 2003
				First Named Inventor	ZIPPER, Ellav
				Group Art Unit	2681
				Examiner Name	Not yet known
Sheet	3	of	4	Attorney Docket Number	P-8114-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
M	AM	FREDRICK H. RAAB, "Efficiency of Outphasing RF Power-Amplifier Systems", IEEE Transactions on Communications. Vol. Com-33, No. 10, Oct 1985, pp. 1094-1099	<input type="checkbox"/>
M	AN	STEVE C. CRIPPS, "RF Power Amplifiers for Wireless Communications", 1999, USA, pp. 219-250	<input type="checkbox"/>
M	AO	D.C. Cox, "Linear Amplification with Nonlinear Components", IEEE Transaction on Communications, December 1974, pp.1842-1845.	<input type="checkbox"/>
M	AP	Bob Stengel and William R. Eisenstadt, "LINC Power Amplifier Combiner Method Efficiency Optimization", IEEE Transaction on Vehicular Technology. Vol.49, No. 1, January 2000, pp.229-234	<input type="checkbox"/>
M	AQ	Bob Stengel, "LINC Linear Transmitter Technology Review", Presented at International Microwave Symposium, Boston, MA, June 11, 2000, pp.1-32.	<input type="checkbox"/>
M	AR	S.A. HETZEL et al., "A LINC Transmitter", University of Bristol, IEEE, 1999, pp. 133-137	<input type="checkbox"/>
M	AS	S. O. Ampem-Darko, H.S. Al-Raweshidy, "A Novel Technique for Gain/Phase Error Cancellation in LINC Transmitters", 1999 IEEE, pp. 2034-2038	<input type="checkbox"/>

Examiner Signature		Date Considered	07/24/00
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (10-96)

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/736,741
		Filing Date	December 17, 2003
		First Named Inventor	ZIPPER, Ellav
		Group Art Unit	2681
		Examiner Name	Not yet known
Sheet	4	of	4
		Attorney Docket Number	P-6114-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
M	AT	T. A. D. Riley and M. A. Copeland, "A simplified continuous phase modulator technique," IEEE Trans. on circuits and systems, VOL. 41, NO. 5, pp. 321-328, May 1994.	<input type="checkbox"/>
M	AU	N. M. Filiol, T. A. D. Riley, C. Platt and M. A. Copeland, "An agile ISM band frequency synthesizer with built-in GMSK data modulation," IEEE Journal of Solid-State Circuits, VOL. 33, NO. 7, pp.998-1008, July 1998.	<input type="checkbox"/>
M	AV	M. H. Perrot, T. L. Tewksbury III, C. G. Sodini, "A 27-mW CMOS Fractional-N Synthesizer Using Digital Compensation for 2.5-Mb/s GFSK Modulation", IEEE Journal of Solid-State Circuits, VOL. 32, NO. 12, pp.2048-2060, Dec 1997.	<input type="checkbox"/>
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				Application Number	10/736,741
				Filing Date	December 17, 2003
				First Named Inventor	ZIPPER, Eliav
				Group Art Unit	2681
				Examiner Name	Not yet known
Sheet	1	of	2	Attorney Docket Number	P-6114-US

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Examiner Signature	<i>FD [Signature]</i>	Date Considered	06/17/06
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/736,741
		Filing Date	December 17, 2003
		First Named Inventor	ZIPPER, Eliav
		Group Art Unit	2681
(use as many sheets as necessary)		Examiner Name	Not yet known
Sheet	2 of 2	Attorney Docket Number	P-6114-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (In CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
12	H	J. Nieznanski, "Performance characterization of vector sigma-delta modulation", IECON '98, Proceedings of the 24th Annual Conference of the IEEE, vol. 1, pp. 531-536, 1998	<input type="checkbox"/>
	I	D.L. Neuhoff, "Polar quantization revisited", IEEE International Symposium on Information Theory, 1997 Proceedings, pp. 60, 1997	<input type="checkbox"/>
	J	N.O. Sokal, "RF Power Amplifiers, Classes A through S - How they operate, and when to use each", Electronics Industries Forum of New England, Professional Program Proceedings, pp. 179-183, 1997	<input type="checkbox"/>
	K	T. Yamaji, A. Yasuda, H. Tanimoto, Y. Suzuki, "A Digital-to-RF Converter Architecture Suitable for a Digital-to-RF Direct-Conversion Software Defined Radio Transmitter", IEICE Trans. Commun., vol. E83-B, No. 6, pp. 1254-1260, June 2000.	<input type="checkbox"/>
	L	MICHAEL H. PERROTT ET AL., "A Modeling Approach for Σ - Δ Fractional-N Frequency Synthesizers Allowing Straightforward Noise Analysis", IEEE Journal of Solid-State Circuits, Vol. 37, No. 8, August 2002, pp. 1028-1038	<input type="checkbox"/>
	M	ZHANG et al., "Multibit Oversampled Sigma - Delta A/D Converter with Nonuniform Quantisation", ELECTRONICS LETTERS, 14 MARCH 1991, UK, Vol. 27, No. 6, pp. 528-529	<input type="checkbox"/>
	N	M.H. Perrott, "Techniques for High Data Rate modulation and Low Power Operation of Fractional-N Frequency Synthesizers", PH.D Dissertation, MIT, September 1997, Retrieved from the Internet, URL: http://www-mtl.mit.edu/perrott/pages/thesis.pdf , pp. 1-90	<input type="checkbox"/>
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Examiner Signature		Date Considered	06/17/06
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¹ Unique citation designation number ² Applicant is to place a check mark here if English language Translation is attached

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PTO/SB/08a (07-05)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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				Application Number	10/735,741
				Filing Date	December 17, 2003
				First Named Inventor	ZIPPER, Eliav
				Art Unit	2618
				Examiner Name	JACKSON, Blane J.
Sheet	1	of	2	Attorney Docket Number	P-6114-US

[illegible][illegible]

Examiner Signature	<i>BSL</i>	Date Considered	07/17/06
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08b (07-05)

Approved for use through 06/30/2008. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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		Filing Date	December 17, 2003		
		First Named Inventor	ZIPPER, Ellav		
		Art Unit	2618		
		Examiner Name	JACKSON, Blane J.		
Sheet	2	of	2	Attorney Docket Number	P-6114-US

NON-PATENT LITERATURE DOCUMENTS			
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PL	E	BEATRIZ BOTERO, Nourredine HIFDI, "Parallelism exploitation in SAR data compression methods", EUSAR 2000, Munich, Allemagne, 23-25 May 2000	<input type="checkbox"/>
PL	F	PERIC et al., "Design of Signal Constellations for Gaussian Channel by Using Iterative Polar Quantization", Electrotechnical Conference, 1998 MELECON 98., 9th Mediterranean, Volume 2, 18-20 May 1998 pp. 868-869 vol. 2 Digital Object Identifier 10.1109/MELCON.1998.699649	<input type="checkbox"/>
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Examiner Signature		Date Considered	07/16/06
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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